

Amendments to the Drawings:

The attached sheet of drawings includes changes to Fig. 1. This sheet, which includes Fig. 1, replaces the original sheet, including Fig. 1. Fig. 1 has been designated with a legend of "Prior Art" as requested by the Examiner.

Attachments: Replacement Sheets  
Annotated Sheet Showing Changes

REMARKS

Claims 1-57 are pending. In the Office Action dated December 27, 2005, the Examiner took the following action: (1) objected to the drawings; (2) objected to the abstract; (3) objected to claims 22-36 and 38-57 for informalities; (4) rejected claims 3-6, 9-20, 23-32, 34-36, 39, 44, 48 and 50-52 under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement; (5) rejected claims 1-57 under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement; (6) rejected claims 21 and 37 under 35 U.S.C. § 112, second paragraph, as being indefinite, and further rejected claims 22-36 and 38-52 as being dependant upon the independent claims 21 and 37; and (7) rejected claims 8, 17, 31, 47 and 55 under 35 U.S.C. § 112, second paragraph, as failing to distinctly claim the subject matter.

Applicant is amending the claims to obviate the objections and Section 112 rejections set forth in the Office Action. In some cases, these amendments involve additions to the specification. However, since the subject matter added is being taken from the original claims, adding this subject matter to the specification does not constitute the addition of new matter. Further, none of these amendments narrow or otherwise alter the scope of the claims. Instead, they simply place the claims in better form. All of the claims should now be in condition for allowance. If the Examiner believes any of the claims require further amendment, he is requested to telephone the undersigned attorney to discuss the need for further amendments.

Applicant is also amending the abstract and correcting the drawings.

Insofar as all of the claims remaining in the application are now clearly allowable, favorable consideration and a timely Notice of Allowance are earnestly solicited.

Respectfully submitted,

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Enclosures:

- Postcard
- Fee Transmittal Sheet (+ copy)
- Replacement Abstract
- 1 Sheet of Annotated Drawings (Fig. 1)
- 6 Replacement Sheets of Drawings (Figs. 1-6)

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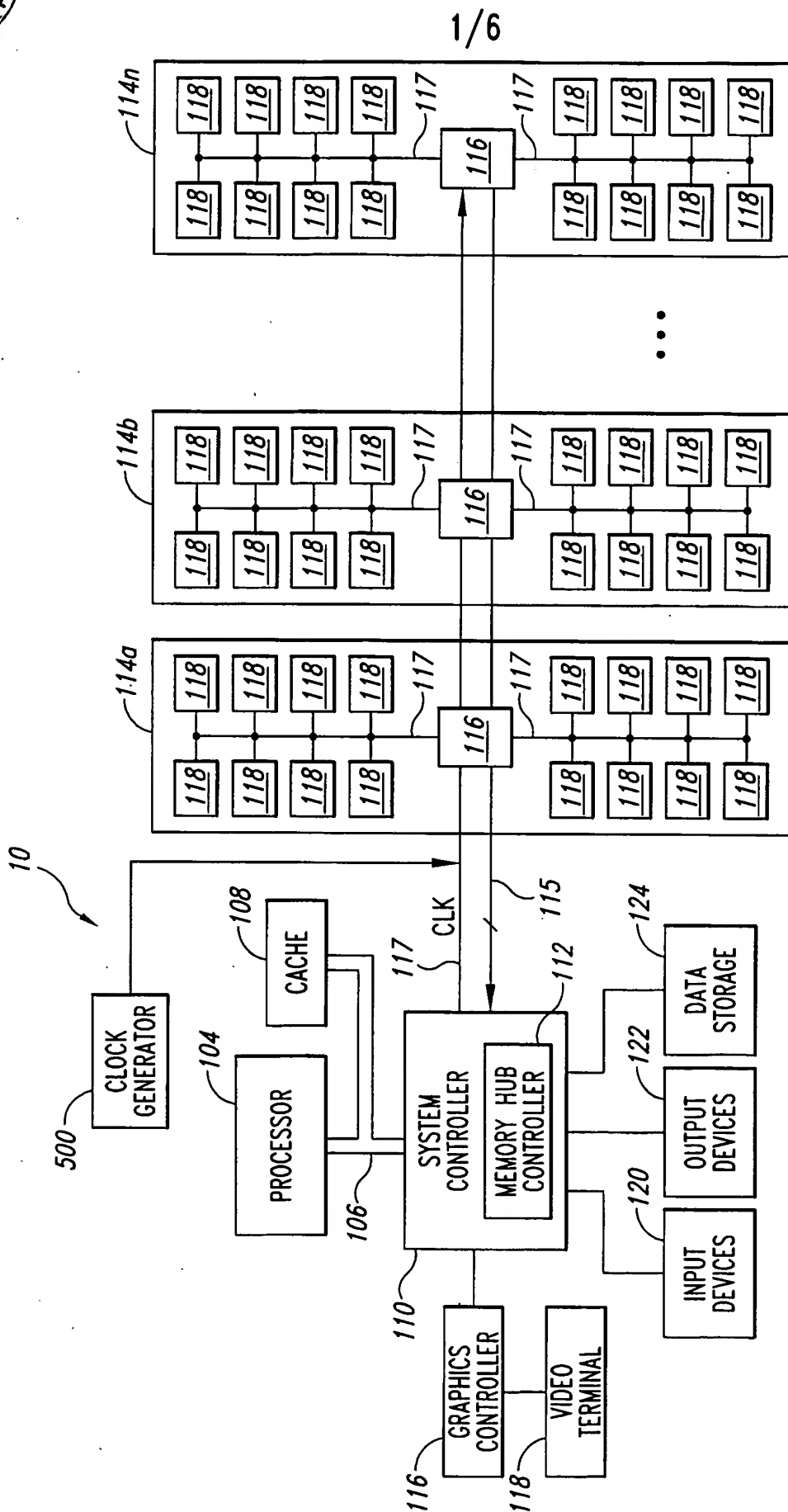
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**SYSTEM AND METHOD FOR USING A LEARNING SEQUENCE TO  
ESTABLISH COMMUNICATIONS ON A HIGH-SPEED NONSYNCHRONOUS  
INTERFACE IN THE ABSENCE OF CLOCK FORWARDING**

**ABSTRACT OF THE DISCLOSURE**

A memory system includes a memory hub controller that sends write data to a plurality of memory modules through a downstream data bus and receives read data from the memory modules through an upstream data bus. The memory hub controller includes a receiver coupled to the upstream data bus and a transmitter coupled to the downstream data bus. Similarly, each of the memory modules includes a receiver coupled to the downstream data bus and a transmitter coupled to the upstream data bus. Each receiver includes a receive clock generator that is synchronized by coupling a known pattern of data to the receiver. The receiver determines which phase of the receive clock best captures the known pattern and uses that receive clock phase during normal operation.



**Fig. 1**  
(Prior Art)